

T. W. Godwin, *Lubricator.*

N^o 46,231.

Patented Feb. 7, 1865.

Fig. 2.

Fig. 1.

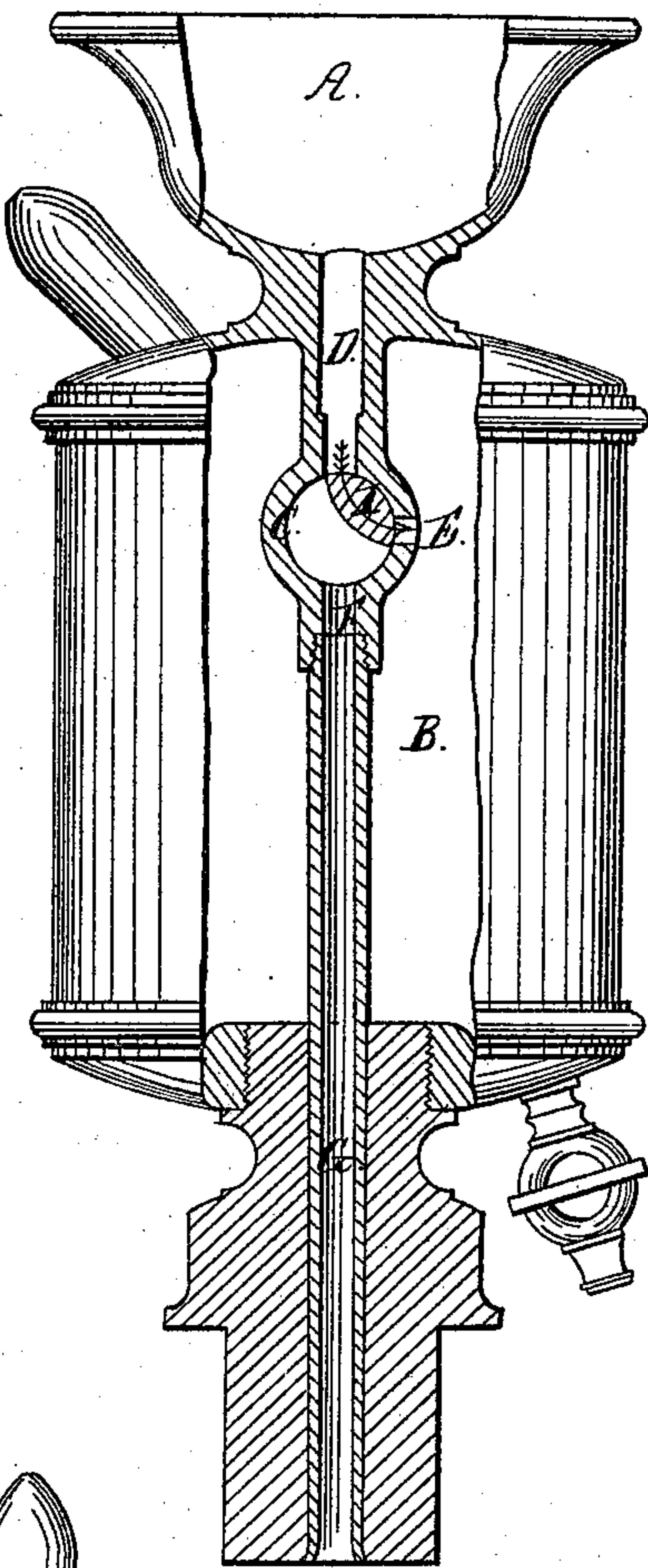
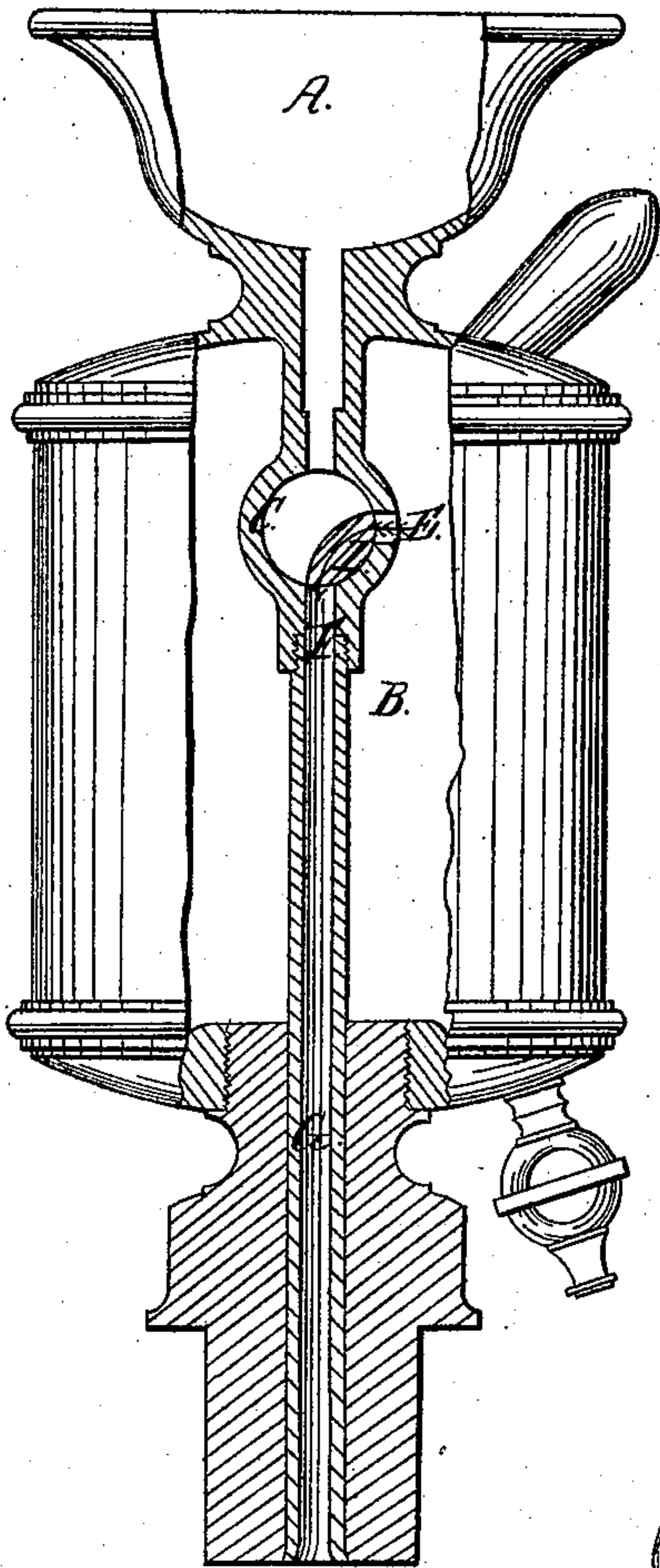
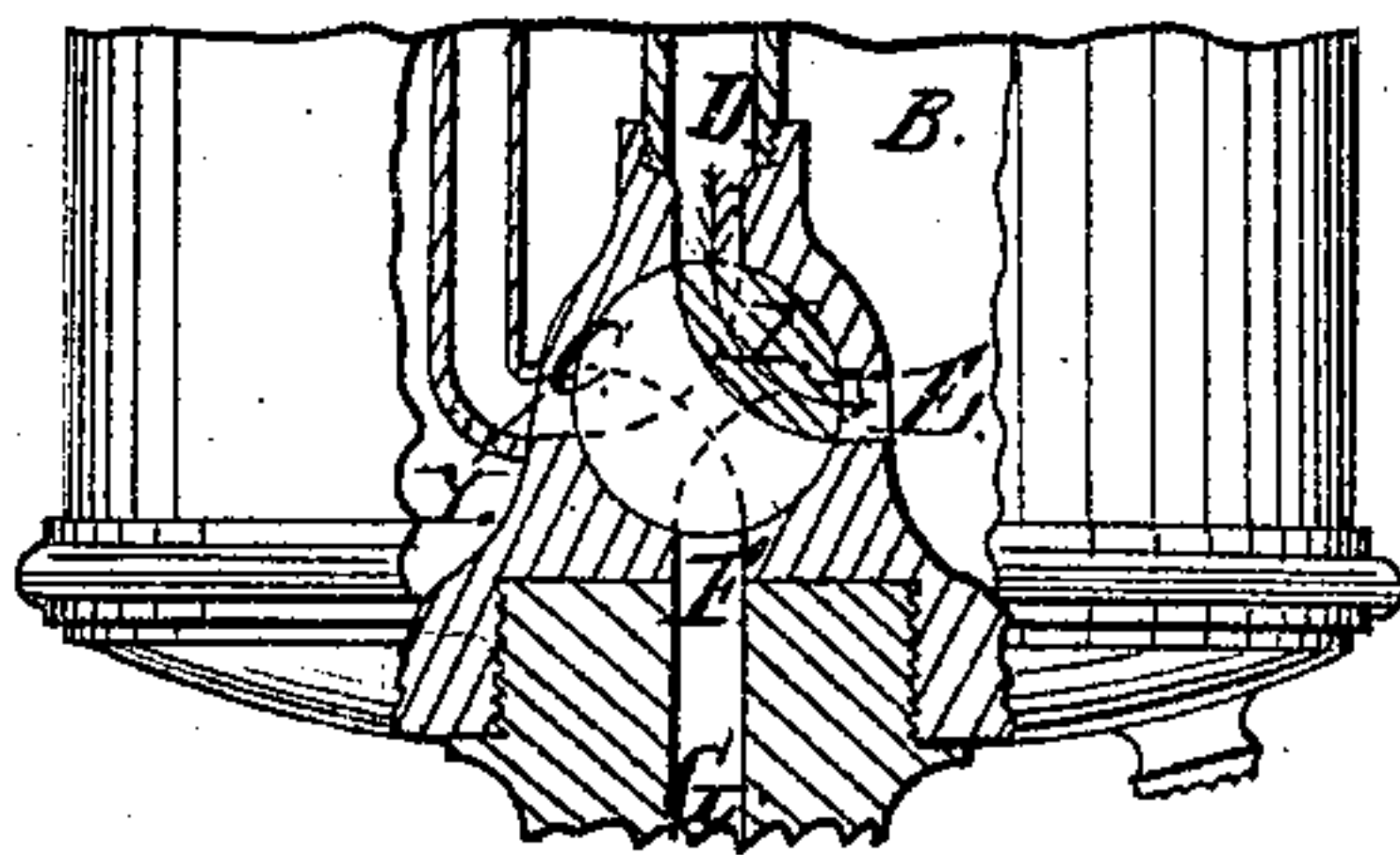
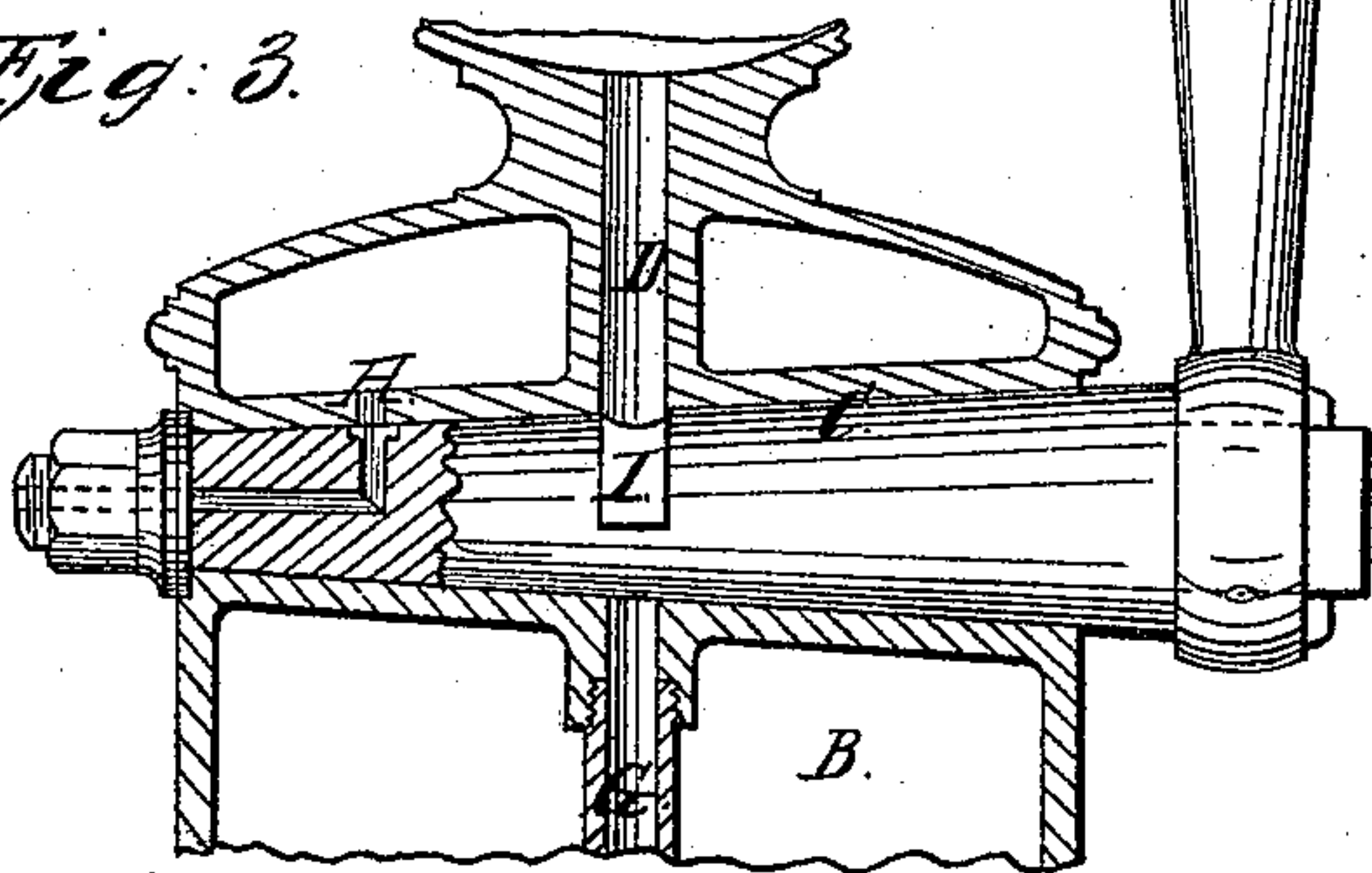


Fig. 3.

Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS W. GODWIN, OF PORTSMOUTH, VIRGINIA.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. 46,231, dated February 7, 1865.

To all whom it may concern :

Be it known that I, THOMAS W. GODWIN, of Portsmouth, in the county of Norfolk and State of Virginia, have invented a new and useful Improvement in Lubricating-Cups; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figures 1 and 2 are vertical sections. Fig. 3 is a transverse section, and Fig. 4 is a vertical section, of the lower part of the reservoir.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The object of my invention is to furnish means for lubricating the valves and cylinders of steam-engines in defiance of the presence or pressure of steam.

A is a feeding-cup.

B is a reservoir.

C is a cock, having openings D E F, as shown in Figs. 1 and 2, and having an additional opening, Y, with tube attached running nearly to the top of the reservoir when placed at the bottom of the reservoir, as shown in Fig. 4.

G is a tube running up in reservoir B, and screwed tight into the cock C in the opening F to prevent communication from the inside of the reservoir and inside of tube G, unless through the openings E F.

H is an opening in the cock-plug, arranged so as to be open when steam is shut off from the inside of the reservoir, thereby allowing the steam that is in the reservoir to escape, and also giving vent to reservoir while filling it with lubricating substance.

I is an orifice made in the cock-plug, of sufficient size to connect the openings D E or E F together, as may be necessary for filling and discharging the reservoir with the lubricating substance.

The opening H in cock-plug C is made for the purpose of allowing the steam to escape which is shut up in reservoir B prior to refilling it. It is an elongated opening, and remains open when the handle is perpendicular or turned to the right, but is closed when the handle is placed in any other position.

The mode of operating this cup is as follows, to wit:

Remove the handle to the left, as in Fig. 1, which will connect the openings D E, affording a free passage for the lubricating substance, and allow it to pass from the feeding-cup A into the reservoir B. After pouring in a sufficient quantity, move the handle to the right, as in Fig. 2, which will connect the openings E F. Immediately the steam rushes up through the tube G, fills the reservoir, and as it condenses the water accumulating therefrom gradually raises the lubricating substance, and keeps the openings E F overflowed with the same, thus making an accurate feeding lubricator.

When refilling the reservoir, place the handle perpendicularly, which will shut off all communication with the steam and outside of the lubricator, except through the opening H. Through this opening the steam which is shut up in the reservoir will escape. After this has been accomplished, move the handle to the left until communication is made with the feeding-cup and reservoir through the openings D E. The opening H will still be open in this position for vent.

The small cock in the bottom of the reservoir is for drawing off the distilled water.

I do not wish to be confined to placing the cock in the upper part of the reservoir alone, for by placing it in the lower part, and having a tube to run up from the opening, I produce the same results. I can also have another opening, Y, as shown in Fig. 4, to discharge the distilled water through the tube G; also, by this opening admit the lubricating substance without feeding it through, as necessity requires.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The arrangement within a lubricator of a single cock, having three or more openings arranged in such a manner as to make an induction and eduction passage, when used as and for the purposes herein described.

2. The mode of charging and discharging the reservoir by means of a single cock, arranged within a lubricator, when used substantially as described.

THOS. W. GODWIN.

Witnesses:

J. C. SMITH,

D. E. SOMES.